

Notice of Allowability

Application No.

10/653,019

Examiner

Yuzhen Ge

Applicant(s)

LUO ET AL.

Art Unit

2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/11/07.
2. ☒ The allowed claim(s) is/are claims 28-51 and 60-64 (relabeled as claims 1-29).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

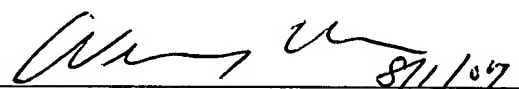
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

WENPENG CHEN
PRIMARY EXAMINER



Examiner's Remark

Applicant's amendment, filed on July 11, 2007, has been received and entered into the file. Claims 1-17 and 52-59 have been canceled. Claims 60-64 are new. The 102 and 103 rejections of claims 28 and 51 have been overcome in view of applicant's amendments/remarks and are hereby withdrawn. Claims 32, 35, 38, 40 and 44 are allowed because they have been rewritten as independent claims and have incorporated the indicated allowable subject matters in the claims.

Allowable Subject Matter

1. Claims 28-51 and 60-64 are allowed. The following is an examiner's statement of reasons for allowance for claims 28, 40 and 60. An examiner's statement of reasons for allowance for other claims has been provided in the previous office action and will not be repeated here.

Claim 28

-- wherein each of the feature vectors comprises a respective set of weights corresponding to respective ones of the features and the projecting comprises for each of the feature vectors determining a respective one of the weights from multiple values of a statistical measure that are derived from respective sets of image values corresponding to different respective regions of the input image.

Claim 40

-- projecting input image into a feature space spanned by multiple features to generate feature vectors respectively representing the candidate redeye pixel areas in the feature space,

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wherein at least some of the features are contrast features corresponding to respective measurement of local contrast, a given contrast feature weight is computed based on a feature template and a feature plane, each feature plane is a scalar image computed from input image data and at least one feature plane corresponds to a mapping of input image data to one of a grayscale image, a CIE-Lab color space representation of the input image data, and a redness image.

Claim 60

-- for each of the candidate redeye pixel areas, determining a respective feature vector comprising weights, wherein the determining comprises calculating each of the weights in accordance with a respective feature template comprising a respective spatial pattern of basis regions each of which is associated with a respective rule for calculating a respective component weight value from values in a respective region of a scalar image derived from values of the input image, wherein the calculating comprises for each of the weights, calculating each of the respective component weights by applying the respective rules associated with the basis regions to values of respective regions of the scalar image, and combining the component weight values to produce the weight; and filtering from the set ones of the candidate redeye pixel areas classified as non-redeye pixel areas based on the determined feature vectors.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

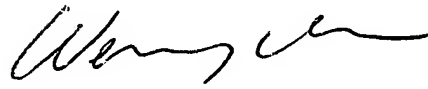
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuzhen Ge whose telephone number is 571-272 7636. The examiner can normally be reached on 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yuzhen Ge
Examiner
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PRIMARY EXAMINER


8/11/07